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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
: Examiner: Manjunath N. Rao
SATOSHI KOIZUMI ET AL.)
: Group Art Unit: 1652
Appln. No.: 09/068,528)
: Filed: May 13, 1998)
: For: PROCESSES FOR REPRODUCING)
: SUGAR NUCLEOTIDES AND)
: COMPLEX CARBOHYDRATES)
: U.S. Patent No.: US 6,821,756 B2)
: March 24, 2005
Issued: November 23, 2004)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF CORRECTION
UNDER RULES 322 AND 323

Sir:

It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of Correction form, in duplicate, is enclosed.

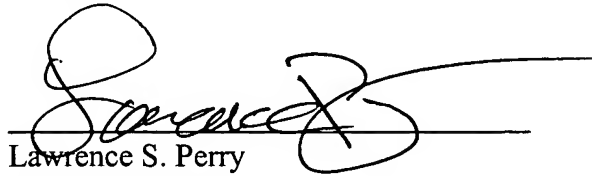
Accompanying this letter is a check for \$100.00 to cover the statutory fee for such Certificate of Correction.

03/28/2005 EABUBAK1 00000064 6821756

01 FC:1811 100.00 DP

Patentees' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lawrence S. Perry", is written over a horizontal line.

Lawrence S. Perry
Attorney for Patentees
Registration No. 31,865

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PATENT NO. : US 6,821,756 B2

DATED : November 23, 2004

INVENTOR(S) : SATOSHI KOIZUMI ET AL.

Page 1 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON COVER PAGE [54] TITLE:

“REPRODUCING” should read --PRODUCING--.

ON COVER PAGE [56] FOREIGN PATENT DOCUMENTS:

“EP 0553821 8/1993” should be deleted (duplicate entry).

ON COVER PAGE [56] FOREIGN PATENT DOCUMENTS:

“JP 02177891 7/1990” should read --JP 02-177891 7/1990--.

ON COVER PAGE [56] OTHER PUBLICATIONS:

“Zapata et al. J. Biol. Chem. vol. 264(25):14769-14774.*” should read --
Zapata et al. J. Biol. Chem., Vol. 264(25):14769-14774.*--.

ON COVER PAGE [56] OTHER PUBLICATIONS:

“J. Sci. Industr. Res., vol. 21C (Dec. 1962), pp. 352-354.; Pattabiraman et al.,.”
should read --J. Sci. Industr. Res., Vol. 21C (Dec. 1962), pp. 352-354.
Pattabiraman et al.--.

ON COVER PAGE [56] OTHER PUBLICATIONS:

“J. Org. Chem., vol. 57 (1992), pp. 146-151. Heidlas J.E. et al.,.” should read
--J. Org. Chem., Vol. 57 (1992), pp. 146-151. Heidlas J.E. et al.--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON COVER PAGE [56] OTHER PUBLICATIONS:

“Analytic Biochemistry, vol. 91 (1978), pp. 490-495. Rao H K., Mendicino J.,” should read --Analytic Biochemistry, Vol. 91 (1978), pp. 490-495. Rao H K., Mendicino J.--.

COLUMN 1:

Line 1, “REPRODUCING” should read --PRODUCING--.

COLUMN 3:

Line 6, “bloth” should read --broth--;
Line 13, “and” (first occurrence) should read --an--;
Line 35, “pTR7” should read --pTK7--; and
Line 50, “galk” should read --galK--.

COLUMN 4:

Line 35, “(inorganic)pyrophosphatase” should read --(inorganic) pyrophosphatase--.

COLUMN 7:

Line 2, “DMA” should read --DNA--;
Line 42, “Corynabacterium” should read --Corynebacterium--;
Line 44, “Corynabacterium” should read --Corynebacterium--;
Line 61, “Corynabacterium” should read --Corynebacterium--; and
Line 63, “Corynabacterium” should read --Corynebacterium--.

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COLUMN 8:

Line 12, "Corynabacterium" should read --Corynebacterium--;
Line 14, "Corynabacterium" should read --Corynebacterium--;
Line 52, "in" should read --is--;
Line 58, "Corynabacterium" should read --Corynebacterium--; and
Line 60, "Corynabacterium" should read --Corynebacterium--.

COLUMN 9:

Line 33, "Corynabacterium" should read --Corynebacterium--; and
Line 35, "Corynabacterium" should read --Corynebacterium--.

COLUMN 10:

Line 8, "microorganism descried" should read --microorganisms described--;
Line 24, "microorganism" should read --microorganisms--;
Line 25, "microorganism" should read --microorganisms--;
Line 30, "ism" should read --isms--;
Line 32, "Corynabacterium" should read --Corynebacterium--;
Line 45, "Corynabacterium" should read --Corynebacterium--; and
Line 62, "UDP-Glc fr" should read --UDP GlcNAc from--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 11:

Line 3, "microorganisms" should read --microorganism--;
Line 18, "microorganisms" should read --microorganism--;
Table 2, "galU gene J. Biochem, 115, 965 (1994)" should read --galU gene J. Biochem., 115, 965 (1994)--;
Table 2, "glmU gene J. Bacteriol, 175, 6150 (1993)" should read --glmU gene J. Bacteriol., 175, 6150 (1993)--; and
Table 2, "pgm gene J. Bacteriol, 176, 5847 (1994)" should read --pgm gene J. Bacteriol., 176, 5847 (1994)--.

COLUMN 12:

Line 3, "organism" should read --organisms--;
Line 4, "Corynebacterium" should read --Corynebacterium--;
Line 58, "coli DB1," should read --coli DH1,--;
Line 66, "Corynabac-" should read --Corynebac---; and
Line 67, "Corynebacterium" should read --Corynebacterium--.

COLUMN 13:

Line 1, "Corynebacterium" should read --Corynebacterium--.

COLUMN 14:

Line 7, "tetracycline," should read --tetracycline--; and
Line 32, "culture" should read --cultured--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 15:

Line 32, "pyrivic" should read --pyruvic--;
Line 53, "Nymean" should read --Nymeen--; and
Line 55, "catyl" should read --cetyl--.

COLUMN 16:

Line 28, "UV 262 nM" should read --UV 262 nm--; and
Line 39, "in" should be deleted.

COLUMN 17:

Line 22, "Helicobactar" should read --Helicobacter--; and
Line 56, "culturesupernatant" should read --culture supernatant--.

COLUMN 18:

Line 2, "units" should read --unit--;
Line 15, "Mncl₂," should read --MnCl₂--;
Line 46, "LS-tetrasaccharide α," should read --LS-tetrasaccharide c,--; and
"(3')sialyllacto-N-neotetraose" should read --(α2,3)sialyllacto-N-neotetraose--; and
Line 56, "N-acetylamannosamine," should read --N-acetylmannosamine,--.

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COLUMN 19:

Line 1, "(3')sialyllacto-N-tetraose," should read --(α 2,3)sialyllacto-N-neotetraose,--;
Line 13, "GlcNac β 1-4Glc, GlcNac β 1-3GlcNac," should read --GlcNac β 1-4Glc, GlcNac β 1-3GlcNac,--;
Line 14, "GlcNac β 1-4GlcNac, GlcNac β 1-6GalNac," should read --GlcNac β 1-4GlcNac, GlcNac β 1-6GalNac,--;
Line 19, "GlcUA β 1-3GalNac," should read --GlcUA β 1-3GalNac,--;
Line 27, "6or" should read --6 or--; and
Line 49, "N-acetylamannosamine," should read --N-acetylmannosamine,--; and "acide" should read --acid--.

COLUMN 20:

Line 19, "treats" should read --treated products--;
Line 31, "treats" should read --treated products--;
Line 66, "(3')sialyllacto-N-neotetraose" should read --(α 2,3)sialyllacto-N-neotetraose--; and
Line 67, "N-acetylamannosamine," should read --N-acetylmannosamine,--.

COLUMN 21:

Line 67, "N-acetylamannosamine," should read --N-acetylmannosamine,--.

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COLUMN 23:

Line 2, "cataxahlis," should read --catarahlis--;
Line 8, "sendai" should read --Sendai--;
Line 31, "bodas" should read --bodies--;
Line 54, "P₁promoter" should read --P₁ promoter--;
Line 58, "BF-5407)" should read --BP-5407--;
Line 65, "Difco),5" should read --Difco), 5--; and
Line 66, "pH 7.2)" should read --pH 7.2--.

COLUMN 24:

Line 54, "antisence" should read --antisense--.

COLUMN 25:

Line 38, "mid The" should read --mid ¶ The--;
Line 39, "antisence" should read --antisense--; and
Line 53, "gal" should read --gel--.

COLUMN 26:

Line 50, "MgSO₄·7H₂O," should read --MgSO₄·7H₂O--; and "0.1 g/l CaCl₂· 10 mg/l FeSO₄·7H₂O," should read --0.1 g/l CaCl₂·2H₂O, 10 mg/l FeSO₄·7H₂O--;
Line 51, "ZnSO₄·7H₂O," should read --ZnSO₄·7H₂O--;
Line 66, "10 g/l MgSO₄·7H₂O," should read --10 g/l MgSO₄·7H₂O--; and "1.0 g/l CaCl₂·2H₂O," should read --1.0 g/l CaCl₂·2H₂O--; and
Line 67, "FeSO₄·7H₂O," should read --FeSO₄·7H₂O--.

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COLUMN 27:

Line 1, "MnSO₄·4-6H₂O" should read --MnSO₄·4-6H₂O--;
Line 2, "L-cystaine," should read --L-cysteine--;
Line 13, "Corynabacterium" should read --Corynebacterium--;
Line 14, "5 g/l mg SO₄·7H₂O," should read --5 g/l mgSO₄·7H₂O--;
Line 16, "Nymean" should read --Nymeen--;
Line 34, "antisence" should read --antisense--; and
Line 66, "agarosa" should read --agarose--.

COLUMN 28:

Line 29, "chlorampha-" should read --chloramphe---;
Line 35, "NM 522/pNT25/pNT 32" should read --NM522/pNT25/pNT32--;
Line 38, "Corynabacterium" should read --Corynebacterium--;
Line 45, "Corynabacterium" should read --Corynebacterium--;
Line 47, "MgSO₄·7H₂O," should read --MgSO₄·7H₂O--;
Line 48, "Nymean" should read --Nymeen--;
Line 55, "ws" should read --was--;
Line 61, "Corynabacterium" should read --Corynebacterium--; and
Line 66, "Corynabacterium" should read --Corynebacterium--.

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COLUMN 29:

Line 2, "Corynabacte-" should read --Corynebacte---;
Line 3, "ammoniagenese" should read --ammoniagenes--;
Line 21, "Corynabacterium" should read --Corynebacterium--;
Line 42, "a" should be deleted--;
Line 47, "Corynabacterium" should read --Corynebacterium--;
Line 60, "Corynabacterium" should read --Corynebacterium--; and
Line 62, "then for" should read --then at 40°C for--.

COLUMN 30:

Line 2, "Corynabacterium" should read --Corynebacterium--;
Line 3, "5 g/l MgSO₄·7H₂O," should read --5 g/l MgSO₄·7H₂O,--;
Line 4, "Nymean" should read --Nymeen--; and
Line 20, "antisence" should read --antisense--.

COLUMN 31:

Line 5, "antisence" should read --antisense--;
Line 11, "tho" should read --the--;
Line 36, "antisence" should read --antisense--;
Line 42, "th" should read --the--;
Line 46, "gal" should read --gel--; and
Line 66, "antisence" should read --antisense--.

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COLUMN 32:

Line 2, "plate," should read --template--;
Line 8, "gal" should read --gel--;
Line 18, "NW522" should read --NM522--; and
Line 52, "antisence" should read --antisense--.

COLUMN 33:

Line 7, "plamid" should read --plasmid--;
Line 14, "gal" should read --gel--;
Line 19, "fragments" should read --fragment--;
Line 22, "coil" should read --coli--;
Line 34, "UDP-GlcHAc" should read --UDP-GlcNAc--;
Line 35, "KY8415/pNT14,NM522/pNT24," should read --KY8415/pNT14,
NM522/pNT24,--;
Line 45, "6mM MgCl₂.6H₂O," should read --6mM MgCl₂.6H₂O,--;
Line 46, "Nymean" should read --Nymeen--;
Line 53, "UDP-GlcNac" should read --UDP-GlcNAc--; and
Line 67, "NH522/pNT47" should read --NM522/pNT47--.

COLUMN 34:

Line 12, "pT47" should read --pNT47--;
Line 15, "MgSO₄.7H₂O," should read --MgSO₄.7H₂O,--;
Line 63, "5 g/l MgSO₄.7H₂O," should read --5 g/l MgSO₄.7H₂O,--; and
Line 65, "200 ml," should read --200 ml beaker,--.

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COLUMN 35:

Line 23, "5 g/l MgSO₄·7H₂O," should read --5 g/l MgSO₄·7H₂O,--; and
Line 42, "antisence" should read --antisense--.

COLUMN 36:

Line 40, "chloramphanicol" should read --chloramphenicol--;
Line 42, "fr" should read --from--;
Line 49, "antisence" should read --antisense--;
Line 58, "gal" should read --gel--; and
Line 65, "subjected" should read --were subjected--.

COLUMN 37:

Line 2, "chloramphanicol" should read --chloramphenicol--;
Line 15, "NM522/pnK7" should read --NM522/pNK7--;
Line 18, "chloramphanicol" should read --chloramphenicol--;
Line 26, "thus obtained the" should read --the thus obtained--;
Line 38, "MgSO₄·7H₂O" should read --MgSO₄·7H₂O,--; and
Line 53, "antisence" should read --antisense--.

COLUMN 38:

Line 20, "NM522/pnK7/pNT55" should read --NM522/pNK7/pNT55--;
Line 37, "MgSO₄·7H₂O," should read --MgSO₄·7H₂O,--;
Line 54, "antisence" should read --antisense--; and
Line 66, "gal" should read --gel--.

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COLUMN 39:

Line 1, "SR + DNA" should read --SK + DNA--;
Line 2, "RI," should read --BamHI,--;
Line 19, "gal" should read --gel--;
Line 47, "Corynebacterium" should read --Corynebacterium--;
Line 50, "An" should read --As--;
Line 55, "C600/pNAL1" should read --C600/pNAL1--; and
Line 60, "MgSO₄·7H₂O" should read --MgSO₄·7H₂O--.

COLUMN 40:

Line 12, "RPMI1640.ITPSGF" should read --RPMI640.ITPSGF--; and
Line 28, "RPMI1640.ITPSGF" should read --RPMI640.ITPSGF--.

COLUMN 42:

Line 18, "plamid" should read --plasmid--;
Line 20, "plamid" should read --plasmid--; and
Line 43, "5 g/l MgSO₄·7H₂O" should read --5 g/l MgSO₄·7H₂O--.

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COLUMN 43:

Line 11, "5 g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ " should read --5 g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ --;
Line 34, "antisence" should read --antisense--; and
Line 45, "Gone" should read --Gene--.

COLUMN 44:

Line 3, "arose" should read --agarose--;
Line 27, "Corynabacterium" should read --Corynebacterium--;
Line 35, "Corynabacterium" should read --Corynebacterium--;
Line 38, "g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ " should read --g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ --;
Line 55, "Corynabacterium" should read --Corynebacterium--;
Line 64, "Corynabacterium" should read --Corynebacterium--; and
Line 66, "5 g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$," should read --5 g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ --.

COLUMN 45:

Line 5, " KH_2PO_4 " should read -- KH_2PO_4 --.

COLUMN 46:

Line 6, "5 g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$," should read --5 g/l $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ --; and
Line 20, "solo" should read --sole--.

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PATENT NO. US 6,821,756 B2

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CERTIFICATE OF CORRECTION

PATENT NO. : US 6,821,756 B2

DATED : November 23, 2004

INVENTOR(S) : SATOSHI KOIZUMI ET AL.

Page 14 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 51:

Sequence Listing ID 17, "(close up space)" and "(b)" should read --(B)--.

COLUMN 56:

Line 51, "cells," (second occurrence) should read --cells--; and

Line 52, "cells" should read --cells,--.

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